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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/004,245 | 11/01/2001 | Rumo Satake | SEL 285 | 2124 |
| 7590 | 11/07/2003 | | EXAMINER | |
| COOK, ALEX, MCFARRON, MANZO, CUMMINGS & MEHLER, LTD. Suite 2850 200 West Adams St. Chicago, IL 60606 | | | QI, ZHI QIANG | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2871 | |
| DATE MAILED: 11/07/2003 | | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|---------------------|------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/004,245 | SATAKE, RUMO |
| | Examiner Mike Qi | Art Unit 2871 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 02 October 2003 .
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5,7-10,20-22 and 26-34 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 4,5,7-10 and 29-34 is/are allowed.
 6) Claim(s) 1-3,20-22 and 26-28 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 10/2103
2/13/02; 2/6/02; 11/1/01

4) Interview Summary (PTO-413) Paper No(s) _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-3, 20-22 and 26-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1, recitation ". . . the pixel electrode contains a main face, a first face closer to the opposed electrode than the main face, and a second face closer to the opposed electrode than the first face, . . . the first face is extended along the scanning line, . . . the second face is adjacent to an intersection between the scanning line and the signal line.";

Claim 20, recitation ". . . the pixel electrode contains a main face, and a first face closer to the opposed electrode than the main face, . . . the first face is extended along the scanning line.";

Claim 26, recitation ". . . the pixel electrode contains a main face, and a first face closer to the opposed electrode than the main face, . . . the first face is extended along the scanning line and is disposed at an edge of the main face.";

In which the claims cannot tell which face of the pixel electrode is the first face and which face of the pixel electrode is the second face, and the specification does not describe the first face and the second face, such that the claims do not have any definition for the first face and the second face.

According to the Figs.1-8, if the first face was the first end portion of the pixel electrode (the first end portion of the pixel electrode is along the scanning line, and it also is disposed at an edge of the main face of the pixel electrode) and if the second face was the third end portion of the pixel electrode (the third end portion of the pixel electrode also is adjacent to an intersection of the scanning line and the signal line), then the first face and the second face would be at the same level, so that the second face is impossible closer to the opposed electrode than the first face with respect to the main face of the pixel electrode. Therefor it is contradict with the claim described as the second face closer to the opposed electrode than the first face. Therefore, the claims are not searchable and are not examinable.

Claims 2-3 are dependent on the claim 1, claims 21-22 are dependent on the claim 20 and claims 27-28 are dependent on the claim 26. Therefore, the claims 2-3, 21-22 and 27-28 have the deficiency set forth above.

Allowable Subject Matter

4. Claims 4-5, 7-10 and 29-34 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record neither discloses nor teaches a liquid crystal display device comprising various elements as claimed, more specifically, as the following:

the pixel electrode having such configuration that the second end portion and the fourth end portion are at a same height as the main face, and the first end portion and the third end portion are disposed closer to the opposed electrode than the main face; and the two end portions of the first end portion are further closer to the opposed electrode than the center of the first end portion; and the two end portions of the third end portion are further closer to the opposed electrode than the center of the third end portion [claims 4 and 29, as shown in Figs. 6B and 10].

Non of the prior art of record disclosed such pixel configuration as claimed wherein the pixel electrode having first end portion, third end portion, second end portion and forth end portion; and two end portions of the first end portion, two end portions of the third end portion; and as shown in the Figs.6B and 10.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Qi whose telephone number is (703) 308-6213.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mike Qi
October 27, 2003


T. Chandray
Primary Examiner